On page 6, line 22, please replace "2373" with --2376--.

On page 6, line 23, please replace "serotype A" with --serotype B--.

On page 6, line 25, please replace "790" with --791--.

On page 7, line 11, please replace "serotype B" with --serotype A--.

On page 7, line 12, please replace "2376" with --2373--.

On page 7, line 13, please replace "serotype B" with --serotype A--.

On page 7, line 14, please replace "2373" with --2370--.

On page 7, line 15, please replace "791" with --790--.

On page 8, line 5, please replace "2373" with --2370--.

On page 8, line 6, please replace "791" with --790--.

On page 8, line 27-28, please replace "serotype A" with --serotype B--.

On page 8, line 28, please replace "790" with --791--.

On page 8, lines 29, please replace "serotype A" with --serotype B--.

On page 9, line 2, please replace "serotype B" with --serotype A--.

On page 9, line 3, please replace "791" with --790--.

On page 9, line 4, please replace "serotype B" with --serotype A--.

On page 9, line 7, please replace "791" with --790--.

On page 9, line 32, please replace "serotype A" with --serotype B--.

On page 9, line 25, please replace "serotype B" with --serotype A--.

On page 9, lines 28-29, please replace "serotype A" with --serotype B--.

On page 12, line 8, please replace "serotype A" with --serotype B--.

On page 12, line 11, please replace "serotype B" with --serotype A--.

On page 12, line 14, please replace "ZN." with -N.--.

On page 13, line 20, please replace "2373" with --2376--.

On page 13, line 21, please replace "serotype A" with --serotype B--.

On page 13, line 23, please replace "serotype A" with --serotype B--.

On page 13, line 23, please replace "791" with --790--.

On page 13, line 27, please replace "2376" with --2373--.

On page 13, line 28, please replace "serotype B" with --serotype A--.

On page 14, line 1, please replace "2373" with --2370--.

On page 14, line 2, please replace "791" with --790--.

On page 14, line 3, please replace "serotype B" with --serotype A--.

On page 14, line 9, please replace "2373" with --2370--.

On page 14, line 10, please replace "791" with --790--.

On page 15, line 17, please replace "2373" with --2376--.

On page 15, line 18, please replace "serotype A" with --serotype B--.

On page 15, line 20, please replace "2370" with --2373--.

On page 15, line 20, please replace "serotype A" with --serotype B--.

On page 15, line 20, please replace "790" with --791--.

On page 15, line 22, please replace "serotype A" with --serotype B--.

On page 15, line 24, please replace "2376" with --2373--.

On page 15, line 25, please replace "serotype B" with --serotype A--.

On page 15, line 27, please replace "2373" with --2370--.

On page 15, line 27, please replace "serotype B" with --serotype A--.

On page 15, line 28, please replace "791" with --790--.

On page 15, line 29, please replace "serotype B" with --serotype A--.

On page 16, line 8, please replace "2373" with --2370--.

On page 16, line 9, please replace "791" with --790--.

On page 18, line 10, please replace "serotype A" with --serotype B--.

On page 18, line 11, please replace "2373" with --2376--.

On page 18, line 13, please replace "serotype B" with --serotype A--.

On page 18, line 14, please replace "2376" with --2373--.

On page 18, line 16, please replace "2376" with --2378--.

On page 18, line 19, please replace "serotypes A" with --serotype B--.

On page 18, line 19, please replace "B" with --serotype A--.

On page 18, line 20, please replace "C" with --serotype C--.

On page 18, line 27, please replace "serotypes A" with --serotype B--.

On page 18, line 27, please replace "B" with --serotype A--.

On page 18, line 27, please replace "C" with --serotype C--.

On page 38, line 1, please insert --(SEQ ID No. 15)-- after the peptide sequence.

On page 41, line 3, please replace "(SEQ ID No.: 15)" with --(SEQ ID No.: 11)--.

On page 41, line 5, please replace "(SEQ ID No.: 16)" with --(SEQ ID No.: 12)--.

On page 41, line 7, please replace "(SEQ ID No.: 17)" with --(SEQ ID No.: 13)--.

On page 41, line 10, please replace "(SEQ ID No.: 18)" with --(SEQ ID No.: 14)--.

On page 42, line 12, please replace "serotype A" with --serotype B--.

On page 42, line 12, please replace "serotype B" with --serotype A--.

Please replace pages 46-75 with pages 46-87 submitted herewith and comprising a Sequence Listing.

If Examiner Hayes believes it to be helpful, he is invited to contact the undersigned attorney by telephone at (312) 913-0001.

Respectfully submitted,
McDonnell Boehnen Hulbert & Berghoff

Date: October 31, 2002

By: _____

Kevin E. Noonan, Ph.D.
Reg. No. 35,303